

**To:** Matt Francis (m.francis@erllc.com)[m.francis@erllc.com]  
**Cc:** Powell, Greg[Powell.Greg@epa.gov]; Dhieux, Joyel[Dhieux.Joyel@epa.gov]; Guy, Kerry[Guy.Kerry@epa.gov]; Myers, Craig[Myers.Craig@epa.gov]; Petri, Elliott[Elliott.Petri@WestonSolutions.com]  
**From:** Way, Steven  
**Sent:** Tue 9/8/2015 6:26:41 PM  
**Subject:** FW: GK Mine Discharge- Temporary Treatment - Lime Addition / Floc Optimer 83949 Floc Testing

Matt,

FYI – the Copper Env team assisting with our current system performance and potential future lime addition based system at Glandstone has provided the following information. If we determine it is necessary to use Flocculent, then our current testing results are indicated below. The main point being the pH will need to be raised to have effective flocculent performance with the Nalco product previously discussed.

This does not require an immediate action, other than, the need to identify a supplier of the liquid form in tote size or equivalent was discussed before the long weekend.

Steve

Steven Way

Federal On-Scene Coordinator

Emergency Response Unit

US EPA - Region 8

1595 Wynkoop Street

Denver, CO 80202

Office: 303-312-6723

**From:** Jim Jonas [mailto:jim.jonas@copperenv.com]  
**Sent:** Tuesday, September 08, 2015 11:21 AM  
**To:** Myers, Craig; 'Dave McCarthy'  
**Cc:** Way, Steven; 'Petri, Elliott'  
**Subject:** RE: Optimizer 83949 Floc

Hi Craig,

Yes, the NALCO Optimizer 83949 was the floc we tested and we found it worked better with higher pHs (>6). At other lime treatment systems, we typically dose 1-5 ppm depending on pH, solids loading, and clarifier capacity. We've got about a dozen different flocculants we plan to test with treated water (pH 4.5 and up) from the Site to identify the best flocculant for low pH. We should have the testing completed in the next week or two (at most).

Let me know if you have additional questions.

Thanks,

Jim Jonas

Copper Environmental Consulting

406 East Park Avenue, Suite 2

Anaconda, MT 59711

Phone (406) 563-2700 ext. 313

Fax (406) 563-2701

Mobile (406) 560-6446

email: [jim.jonas@copperenv.com](mailto:jim.jonas@copperenv.com)

[www.copperenv.com](http://www.copperenv.com)

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**From:** Myers, Craig [<mailto:Myers.Craig@epa.gov>]  
**Sent:** Tuesday, September 8, 2015 10:26 AM  
**To:** Jim Jonas; 'Dave McCarthy'  
**Cc:** Way, Steven; 'Petri, Elliott'  
**Subject:** FW: Optimer 83849 Floc

Jim/Dave,

Is this the floc you all tested? If it is, what application rate should we expect to use? Thanks.

Steve,

I assume we're thinking this for when we move the treatment from the R&B to Gladstone?

**From:** Matt Francis [<mailto:m.francis@erllc.com>]  
**Sent:** Tuesday, September 08, 2015 10:21 AM  
**To:** Myers, Craig; Dhieux, Joyel  
**Subject:** Optimer 83849 Floc

Below is a quote for the floc you wanted, and attached is some information on it. For some reason I thought this was to be a liquid floc, but it comes in bags. Seems expensive. Let me know if you would like me to proceed with the order, and how much.

Thanks

**From:** Kaemmerling, Calvin [<mailto:Calvin.Kaemmerling@nalco.com>]  
**Sent:** Tuesday, September 08, 2015 10:11 AM  
**To:** Matt Francis <[m.francis@erllc.com](mailto:m.francis@erllc.com)>  
**Subject:** RE: Introduction

Hi Matt,

This is a dry flocculant so I have the price per 55 pound bag and per pallet (40 bags). These prices include shipping, but do not include tax. I have attached the GHS SDS and the product data sheet. Please let me know how much you would like to order and the PO number. I will get everything going as quickly as possible. I can also help you with activation and makedown procedures. Please let me know if you have any questions about this or anything else.

Optimer 83949.04 (\$372.35 per 55 pound bag)

(\$14,927.85 per pallet)

Thank you,

Calvin Kaemmerling

District Representative

INALCO An Ecolab Company

M 303-868-0466

E [Calvin.Kaemmerling@nalco.com](mailto:Calvin.Kaemmerling@nalco.com)

**From:** Kaemmerling, Calvin  
**Sent:** Tuesday, September 08, 2015 9:47 AM  
**To:** 'm.francis@erllc.com'  
**Subject:** Introduction

Hi Mr. Francis,

I received the following information and would like to talk to you about how I may be able to meet your needs. I am local in Colorado and specialize in coagulants and flocculants. Please call or email me with any additional information you have and I will do what I can to meet your

needs.

**Caller Name :** Matt Francis

**Caller Telephone :** 303 994-6611

**Caller Email Address :** [m.francis@erllc.com](mailto:m.francis@erllc.com)

**Company Name :** Environmental Restoration

**Caller's Address :** 4870 Newport Street

Commerce City CO. 80022

**Shipping Address :**

1218 Greene Street

Silverton CO. 81433

**Product :** Optimer 8349

**What does Company Do :** Help customers clean the environment

**User of Product :** Flocculant

**Resale :** Company's Use

**Export :** No

**Additional Details :**

Thank you,

Calvin Kaemmerling

District Representative

INALCO An Ecolab Company

M 303-868-0466

E [Calvin.Kaemmerling@nalco.com](mailto:Calvin.Kaemmerling@nalco.com)

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